Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	929	(210/634).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/07 15:07
L2	338	(540/456).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/07 15:07
L3	0	1 and 2	US-PGPUB; USPAT	OR	ON	2005/04/07 15:07
L4	2	1 and (rapam\$ OR ascom\$ OR FK506)	US-PGPUB; USPAT	OR	ON	2005/04/07 15:10
L5	427	(422/256).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/07 15:10
L6	0	5 and 2	US-PGPUB; USPAT	OR	ON	2005/04/07 15:11
L7	10	2 AND ("extraction column" "countercurrent" "counter current")	US-PGPUB; USPAT	OR	ON	2005/04/07 15:22
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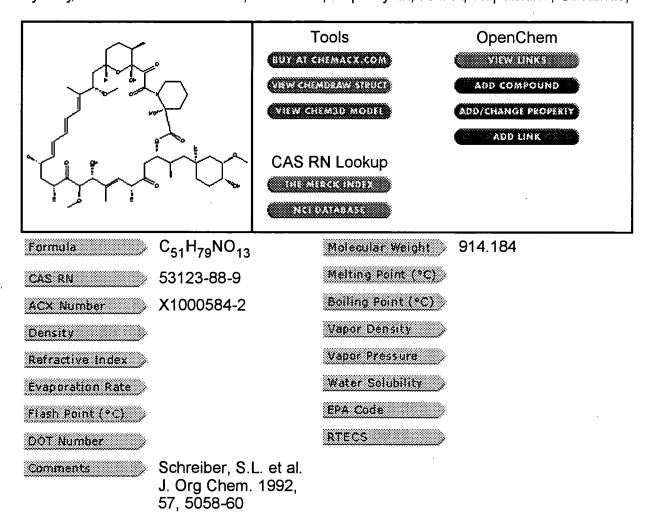
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5	

Rapamycin [53123-88-9]

Synonyms: Antibiotic AY 22989; AY 22989; Rapamycin; RAPA, Rapamune; Sirolimus;



More information about the chemical is available in these categories:

Health (1)

UMCP Partial list of mutagens

Medications (2)



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Ascomycin RN: 11011-38-4

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Synonyms

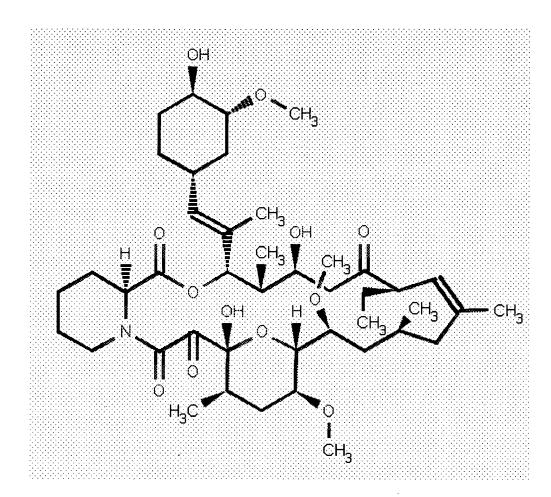
NSC-106410

Systematic Name

Ascomycin

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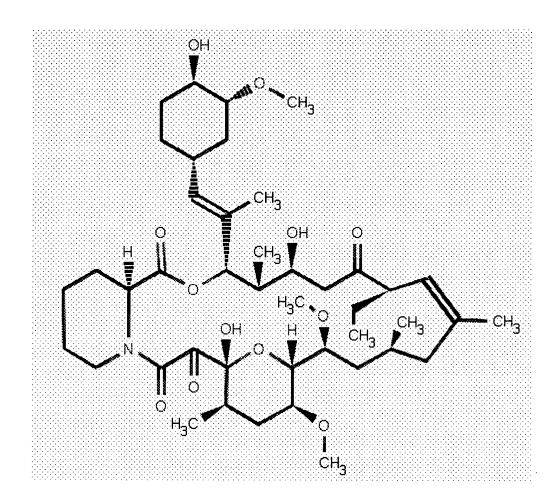
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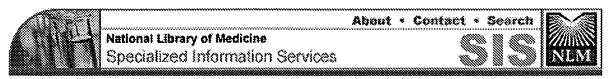
Molecular Formula

C43-H69-N-O12

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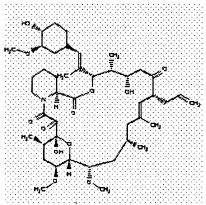




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Tacrolimus [USAN:BAN:INN] RN: 104987-11-3



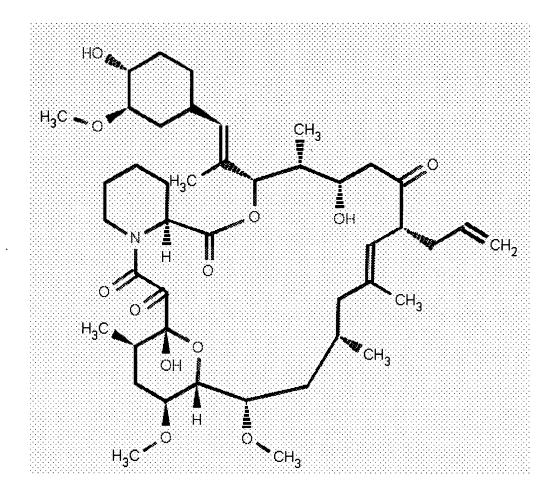
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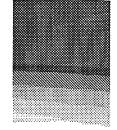
Molecular Formula

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Immunosuppressive agents

Mycophenolate mofetil

Rapamycin(Sirolimus)

Tacrolim₁

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Monograph number: 09117

Title: Tacrolimus

CAS Registry Number: 104987-11-3

CAS Name: (3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R,26aS)-

5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-Hexadecahydro-5,19-dihydroxy-3-[(1*E*)-2-[(1*R*,3*R*,4*R*)-4-hydroxy-3-methoxycyclohexyl]-1-methylethenyl]-14,16-dimethoxy-4,10,12,18-tetramethyl-8-(2-propenyl)-15,19-epoxy-3*H*-pyrido[2,1-*c*][1,4]oxaazacyclotricosine-1,7,20,21(4*H*,23*H*)-tetrone

Additional Names: 17-allyl-1,14-dihydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,19,21,27-tetramethyl-11,28-dioxa-4-azatricyclo[22.3.1.049]octacos-18-ene-

2,3,10,16-tetraone

Molecular Formula: C₄₄H₆₉NO₁₂ Molecular Weight: 804.02

Percent Composition: C 65.73%, H 8.65%, N 1.74%, O 23.88%

Literature References: Macrolide isolated from Streptomyces tsukubaensis no. 9993: M. Okuhara et al., EP 184162 (1986 to Fujisawa); and characterization: T. Kino et al., J. Antibiot. 40, 1249 (1987). Structure determn: H. Tanaka et al., J. Am. Chem. Soc. 109, 5031 (1987). Total synthesis of (-)-form: T. K. Jones et al., J. Am. Chem. Soc. 111, 1157 (1989). In vitro immunosuppressant activity in comparison with cyclosporin, q.v.: T. Kino et al., J. Antibiot. 40, 1256 (1987). Toxicology: K. Ohara et al., Transplant. Proc. 22, 83 (1990). Symposium on pharmacology and clinical trials: ibid. 23, 2709-3376 (1991). Review of mechanism of action: G. Wiederrecht et al., Ann. N.Y. Acad. Sci. 696, 9-19 (1993); of clinical trials in comparison with cyclosporin in renal transplantation: G. A. Knoll, R. C. Bell, Br. Med. J. 318, 1104-1107 (1999). Review of use in dermatoses: A. K. Gupta et al., J. Eur. Acad. Dermatol. Venereol. 16, 100-114 (2002).

Derivative Type: Monohydrate

CAS Registry Number: 109581-93-3

Manufacturers' Codes: FK-506; FR-900506

Trademarks: Prograf (Fujisawa); Protopic (Fujisawa)

Molecular Formula: C₄₄H₆₉NO₁₂.H₂O

Molecular Weight: 822.03

Percent Composition: C 64.29%, H 8.71%, N 1.70%, O 25.30%

Properties: Colorless prisms from acetonitrile, mp 127-129°. $[\alpha]_D^{23}$ -84.4° (c = 1.02 in chloroform). Sol in methanol, ethanol, acetone, ethyl acetate, chloroform, diethyl ether; sparingly sol in hexane, petroleum ether. Insol in water. LD_{50} i.p. in mice: >200 mg/kg (Kino). LD_{50} in male, female rats

(mg/kg): 57.0, 23.6 i.v.; 134, 194 orally (Ohara).

Therapeutic Category: Immunosuppressant.

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Monograph number: 08202

Title: Rapamycin

CAS Registry Number: 53123-88-9

Additional Names: Sirolimus; RAPA; RPM Manufacturers' Codes: AY-22989; NSC-226080

Trademarks: Rapamune (Wyeth)
Molecular Formula: C₅₁H₇₉NO₁₃
Molecular Weight: 914.17

Percent Composition: C 67.01%, H 8.71%, N 1.53%, O 22.75%

Literature References: Triene macrolide antibiotic isolated from Streptomyces hygroscopicus. Name derived from the native word for Easter Island, Rapa Nui. Isoln: S. N. Sehgal et al., DE 2347682; eidem, US 3929992 (1974, 1975 both to Ayerst McKenna Harrison); purification and characterization: C. Vézina et al., J. Antibiot. 28, 721 (1975); S. N. Sehgal et al., ibid. 727. Inhibition of immune response: R. R. Martel et al., Can. J. Physiol. Pharmacol. 55, 48 (1977); of graft rejection in mice: C. P. Eng et al., Transplant. Proc. 23, 868 (1991). Total synthesis: K. C. Nicolaou et al., J. Am. Chem. Soc. 115, 4419 (1993); D. Romo et al., ibid. 7906. Series of articles on therapeutic monitoring and pharmacokinetics: Clin. Ther. 22, Suppl. 2, B1-B132 (2000); on pharmacology and clinical experience in transplantation: Transplant. Proc. 35, Suppl. 1, S1-S233 (2003). Clinical trial in prevention of coronary restenosis: D. R. Holmes, Jr. et al., Circulation 109, 634 (2004).

Properties: Colorless crystalline solid from ether, mp 183-185°. uv max (95% ethanol): 267, 277, 288 nm ($E^{1\%}_{lom}$ 417, 541, 416). [α]_D²⁵ -58.2° (methanol). Sol in ether, chloroform, acetone, methanol and DMF; very sparingly sol in hexane and petr ether. Substantially insol in water. LD₅₀ in mice (mg/kg): 600 i.p.; >2,500 orally (Vézina).

Use: Tool for immunochemistry.

Therapeutic Category: Immunosuppressant; antirestenotic.

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